# **SERVICE MANUAL**

# CASSETTE TAPE DECK





# **SPECIFICATIONS**

# NOTE:

The below mentioned specifications are mainly based on the IHF measurements standard. They can therefore not directly be compared with specifications based on the DIN standard or other standards.

Tape Metal, CrO2, normal tape	Inputs MIC: 400 ohms to 10 kohms
Recording system AC bias, 4-track stereo	(0.3 mV)
Erasing system AC erasing, 2-track	
Tape speed 4.75 cm/sec. (1-7/8 i.p.s.)	Outputs LINE IN: 50 kohms (100 mV)
Rewind and fast forward time Approx. 110 sec. (C-60)	LINE OUT: 2 kohms (0.4 V)
Wow and flutter 0.05% (WRMS)	Power requirements PHONES: 8 ohms to 10 kohms
Frequency response 40 – 17,000 Hz (metal)	Power consumption AC: 220 V, 50 Hz
40 — 16,000 Hz (CrO2)	Dimensions (Approx.) 12 W
Signal to noise ratio 65 dB (Dolby NR on)	Weight (Approx.) (16-1/2" x 8-5/8" x 4-3/8")
(metal tape) 57 dB (Dolby NR off)	4 kg (9 lbs.)

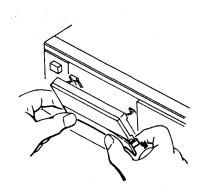
<sup>\*</sup> Specifications subject to change without notice.

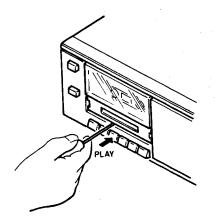
#### NOTE

The POWER- switch is mounted on the secondary side and does not disconnect the set from AC-power, even when switched off.

## Head replacement and azimuth adjustment

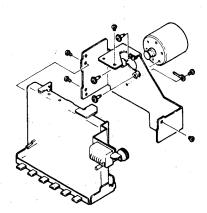
After replacing the head, demagnetize (clean) it with head cleanings and head silencer. Play back the test tape for azimuth adjustment (VTT-658, 10 kHz for instance), and turn the azimuth adjusting screw with Phillips screwdriver so that the left and right outputs of both SIDE 1 and SIDE 2 of cassette will be maximized.





#### Motor replacement and speed regulation

Play back the test tape (MTT-111, 3 kH for instance), and turn the SVR located on the back of motor with blade screwdriver so that the frequency counter will indicate 3,000 Hz.



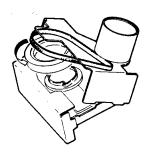
#### Mechanism adjustment

- \* Before measurement, clean the head, capstan and pinch roller.
- \* Check torque and tensions.

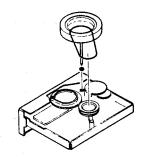
Measuring item	Take-up torque	Back tension	Tape tension		
Measurement cassette	PLAY: TW-2111 F.FWD/REW: TW-2231	PLAY/F.FWD: TW-2111 REW: towque gauge	Drive power cassette TW-2412		
PLAY	35~60 gr.cm	3~5 gr.cm	Greater than 180 gr.		
F.FWD	90~130 gr.cm	3~5 gr.cm	_		
REW	90~130 gr.cm	4~8 gr.cm	_		

#### Belt replacement

1. Flat Belt, Flywheel 141-2-561T-05271

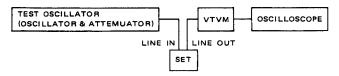


2. Square Belt, Idler 141-2-564T-23971



#### ADJUSTMENT OF AMPLIFIER UNIT

- \* Adjust as follows after cleaning the head and adjusting its azimuth properly.
- \*Set the input switch at the LINE side.



#### (1) Adjustment of playback output

DOLBY NR switch: OFF

Tape selector:

**NORMAL** 

Test tape:

MTT-150 (Dolby tape)

Play back test tape, and turn SVR701 (L-ch), SVR801 (R-ch) until the playback output becomes 0.55 V.

## (2) Adjustment of level meter

DOLBY NR switch: OFF

NORMAL

Tape selector: Test tape:

MTT-150 (Dolby tape)

Play back test tape, and turn SVR703 (L-ch), SVR803 (R-ch) until the +3 dB LED on level meter begins to light up.

#### (3) Adjustment of record, playback output

DOLBY NR switch: OFF

Tape selector: Input signal:

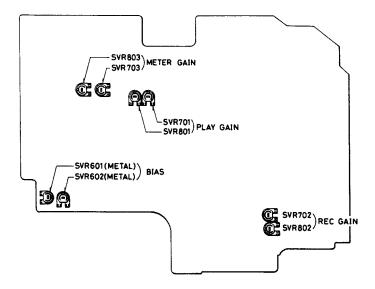
METAL -20 dB, 1 kHz

Tape:

Metal tape (AC-711 or the like) 1. Feed input signal to record input terminal, and pause

- the set in record mode.
- 2. Turn the input level adjusting knob until the record monitor output becomes 0.4 V.
- 3. Record this input signal.
- 4. Press the rewind button the rewind the tape to the record starting position.
- 5. Press the play button.
- 6. Make sure the playback output is 0.4 V.
- 7. If other than 0.4 V, turn SVR702 (L-ch), SVR802 (R-ch) to adjust.
- 8. Repeat steps 3. to 7. to adjust the playback output to 0.4 V precisely.

# PARTS LOCATION



# (4) Adjustment and checking of record, playback frequency characteristics

# (4.1) Adjustment with normal tape

DOLBY NR switch: OFF

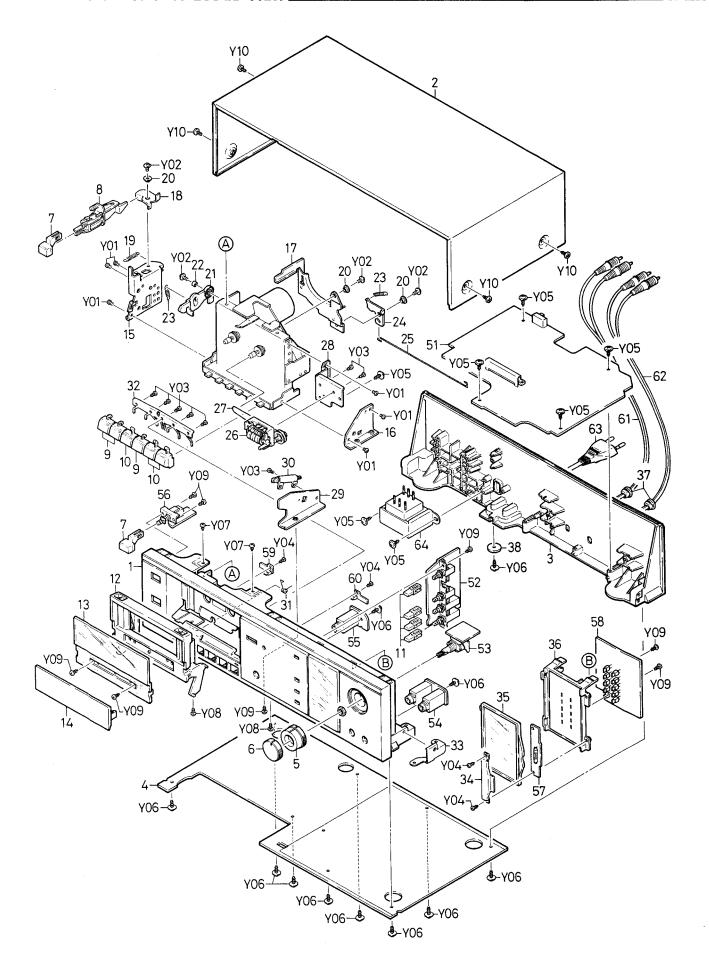
Tape selector: Input signal:

**NORMAL** 

Tape:

-40 dB (1 kHz, 10 kHz) Normal tape (AC-212 or the like)

- 1. Set the input level adjusting knob in the position determined in adjustment (3) above.
- 2. Attenuate the input signal from -20 dB in (3) by further 20 dB to a final -40 dB.
- 3. Change the frequency of audio frequency signal generator from 1 kHz to 10 kHz, and record the signals. (Change as follows: 1, 10, 1, 10 kHz.)
- 4. Press the rewind button to rewind the tape to the record starting position.
- 5. Press the play button.
- 6. Regarding the playback output of 1 kHz signal as 0 dB, make sure the value of 10 kHz signal is within a range of ±1 dB.
- 7. If out of this range, turn SVR601 (L-ch), SVR602 (R-ch) to adjust.
- 8. Repeat steps 3. to 7.



Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
PACKING	 3			ELECTRI	CAL PARTS		
	141-6-133T-38406 141-6-144T-84200 141-6-144T-84300 141-6-410T-81106 141-6-331T-07800 141-6-231T-40700	Individual Carton Pad, Left Side Pad, Right Side Instruction Manual Protector Sheet, 470x800mm Polyethylene Bag, 400x700mm, Set	1 1 1 1 1 1 1 1	61 62 63 64	4-243T-19776 4-243T-19777 4-243T-84973 4-300T-60300 141-6-479T-50700	Lead Cord, Gray, LINE OUT Lead Cord, Black, LINE IN Power Cord Power Transformer (T901) Label, 0/110/220V, Power Transformer mtg.	1 1 1 1
CABINE.	T & CHASSIS			AMP PCB	ASS'Y		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	141-0-122T-46404 141-2-111T-55000 141-0-126T-36728 141-2-125T-29701 141-2-163T-81601  141-2-163T-81501  141-2-160T-16501 141-2-160T-16601  141-2-160T-17302  141-2-160T-09701  141-2-160T-09701  141-2-224T-14030 141-2-153T-85101  141-2-351T-54700  141-2-310T-58200 141-2-310T-58200 141-2-742T-67500 141-2-742T-67500 141-2-742T-67500 141-2-462T-69200 141-2-462T-69200 141-2-855T-86900 141-2-310T-73500 141-2-855T-86900 141-2-310T-73500 141-2-855T-79400 141-2-81TT-11700 141-2-81TT-11700 141-2-855T-79400 141-2-855T-79400 141-2-855T-79400 141-2-329T-08800 141-2-329T-08800 141-2-143T-92701 141-2-210T-43401 141-2-464T-29700 123-2-453R-10500	Button Bracket, Ground Reflector, Lamp Marking Plate, Level Indicator Bracket, Level Indicator Fixer, Lead Cord Plastic Washer, Power Cord mtg  ARDWARE)  Pan Hd. Forming Screw, 3x4mm Pan Hd. Forming Screw with Washer, 3x6mm Pan Hd. Tapping Screw,	<u> </u>	51 IC401 501 IC702 IC703 Q601,602 Q603 Q604 Q605,606 Q607,608 609 Q701,801 702,802 703,803 Q901 Q902 D602 D901,902 903,904 908 D906,907 L401,501 L701,801 L702,802 S1 S7 CNP1 CNP2 CNS3 CNS4 SVR601 SVR701 801 SVR702 802 SVR703 803	4-255T-04271 4-258T-33140 4-252T-12922 4-255T-02371 4-238T-55700 4-238T-10200 4-236T-10200 4-236T-19778 4-240T-11271 4-240T-24400 4-222T-97578 4-222T-97576 4-222T-97576	P.C.B. Assembly, AMP. Integrated Circuit, TA7629P Integrated Circuit, NJM4562SD Integrated Circuit, NJM4558S Integrated Circuit, NJM4558S Transistor, 2SC536AUD or 2SC1815 Transistor, 2SD734 or 2SC1959 Transistor, 2SC536AUD or 2SC1815 Transistor, 2SC536AUD or 2SA1015 Transistor, 2SC536AUD or 2SC1815 Transistor, 2SC536AUD or 2SC1815 Transistor, 2SC536AUD or 2SC1815 Transistor, 2SC536AUD or 2SC1815 Transistor, 2SD400 or 2SC2655 Transistor, 2SD400 or 2SC2655 Transistor, 2SB544 or 2SA1020 Diode, DS442X Diode, DS442X Diode, DS135E  Diode, GZA9.1X MX Coil, 85kHz Oscillator Coil Choke Coil, 6.8mH MX Coil Switch, Record/Play Switch, Beat Cancel Plug, 3P, R/P Head Plug, 10P, Mechanism Socket, 4P, Level Meter Socket, 2P Erasing Head Semi-fixed Resistor, 10K ohm Semi-fixed Resistor, 20K ohm Semi-fixed Resistor, 20K ohm	1 2 1 1 1 2 3 6 1 1 1 5 2 2 1 1 1 1 1 1 1 2 2 2 2 2 2 2
Y04		2.6x6mm Pan Hd. Tapping Screw, 2.6x8mm	4				
Y05		Pan Tapping Washer Hd. Screw 3x10mm	1				
Y06		Pan Tapping Washer Hd. Screw 3x12mm Rinding Hd. Tapping Screw	, 11 2	11	RESISTORS stors are Carbon P-typ	 e 1/4W, ±5% unless otherwise note	a.
Y07		Binding Hd. Tapping Screw, 3x6mm Binding Hd. Tapping Screw,	2	R400,50	00	33 ohm, ±10%, 1/2W, Solid 100K ohm	
Y08		3x8mm Binding Hd. Tapping Screw,	8	R402,50	)2 )3	180 ohm 47K ohm	2
Y 10		3x10mm Binding Hd. Tapping Screw, 4x10mm	4	R404,50	04 05	3.3K ohm 150K ohm 270K ohm	

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
AMP PCB	ASS'Y	·	<u>'</u>	AMP PCE	B ASS'Y		
R508 R509 R601 R602 R603 R604 R605 R606 R607 R608 R609 R610 R611 R612 R613 R614 R615 R616 R617 R618 R619 R630 R631 R622 R633 R701,801 R703,803 R704,804 R705,805 R707,807 R708,808 R709,809 R710,810 R711,811 R730,830 R731,831 R732,832 R733,833 R734,834 R735,835 R737,837 R750,850 R752,852 R753,853 R754,854 R755,855 R764,864 R902 R904		1K ohm 10K ohm 39K ohm 8.2 ohm 39K ohm 15 ohm 1 5K ohm 10 ohm 6.8K ohm 10K ohm 10K ohm 10K ohm 11K ohm 11K ohm 10K ohm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C411,511 C412,512 C414,514 C600 C601 C601 C602 C603 C604 C605 C606 C607 C608 C609 C610 C611 C613 C615 C702,802 C703,803 C704,804 C705,805 C706,806 C708,808 C710,810 C730,830 C750,850 C751,851 C752,852 C756,856 C903 C904 C905 C906 C907 C908 C910 C911 C912 C913 C917		Electrolytic 0.1 μF 50 V Electrolytic 0.33 μF 50 V Electrolytic 10 μF 16 V Ceramic 0.01 μF +80 – 20% 50 V Ceramic 180 pF ±10% 50 V Polypropylene 0.0015 μF ±5% 100 V Ceramic 470 pF ±10% 50 V Ceramic 0.015 μF ±5% 25 V BC-type Ceramic 0.0033 μF ±5% 25 V BC-type Ceramic 0.01 μF ±5% 25 V BC-type Ceramic 0.0033 μF ±5% 25 V BC-type Ceramic 0.01 μF ±5% 25 V BC-type Ceramic 0.01 μF ±5% 25 V BC-type Ceramic 0.01 μF 16 V Electrolytic 10 μF 16 V Electrolytic 14 μF 50 V Ceramic 680 pF ±10% 50 V Ceramic 680 pF ±10% 50 V Ceramic 100 pF ±5% 25 V BC-type Ceramic 100 pF ±5% 25 V BC-type Electrolytic 4.7 μF 50 V Ceramic 0.012 μF ±5% 25 V BC-type Electrolytic 4.7 μF 25 V Electrolytic 4.7 μF 16 V Electrolytic 4.7 μF 16 V Electrolytic 4.7 μF 10 V Electrolytic 4.7 μF 10 V Electrolytic 4.7 μF 10 V Electrolytic 220 μF 10 V Electrolytic 20 μF 10 V Electroly	2221111 1 1 1 1 1 1 1 1 2222 22 2222 22111111
R905 R906 R907		56 ohm 56 ohm 3.9K ohm	1 1 1 1 1		INPUT/TAPE SWIT		
R908		2.7K ohm	1	52 S2,4,5,6	141-4-250T-63273 4-238T-55500 123-2-472R-00401	P.C.B. Assembly, DOLBY/ INPUT/TAPE Switch Switch, DOLBY NR/INPUT/ TAPE Lug, Ground	1 1 1
					RESISTORS		
	CAPACITORS			All resisto	rs are Carbon P-type 1	/4W, ±5% unless otherwise noted.	
C401,501 C403,503 C404,504 C405,505 C406,506 C407,507 C408,508		Electrolytic $0.33\mu\text{F}$ 50V Ceramic $0.0033\mu\text{F}$ $\pm 5\%$ 25V BC-type Electrolytic $10\mu\text{F}$ 16V Electrolytic $10\mu\text{F}$ 16V Ceramic $0.0056\mu\text{F}$ $\pm 5\%$ 25V BC-type Ceramic $0.0047\mu\text{F}$ $\pm 5\%$ 25V BC-type Ceramic $0.027\mu\text{F}$ $\pm 5\%$ 25V BC-type	2 2 2 2 2 2 2 2	R506 R702,802 R760,860 R761,861 R762,862 R763,863 R765,865		27K ohm 47K ohm 5.6K ohm 22K ohm 12K ohm 8.2K ohm 12K ohm	1 2 2 2 2 2 2 2
C409,509 C410,510		Ceramic 0.047µF ±5% 25V BC-type Electrolytic 10µF 16V	2 2	C754,854		Ceramic 0.0047 μF ±10% 25V BC-type	2

Key No.	Part No.	Description	Q'ty
DOLBY/I		CH PCB ASS'Y	
1	CAPACITORS		
C755,855		Ceramic 0.015µF ±10% 25V	2
C760,860		BC-type Ceramic 0.0022μF ±5% 25V	2
		B C-type	
INPUT L	EVEL VOLUME P	I CB ASS'Y	
53	141-4-250T-63373	P.C.B. Assembly INPUT	1
VR701	4-220T-02700	LEVEL VOLUME Variable Resistor, 50K ohm,	1
801		INPUT LEVEL	
	RESISTORS		
R700,800		Carbon 33K ohm ±5% 1/4W	2
11700,000			
MIC SOC	KET PCB ASS'Y		
54	141-4-250T-63473 4-240T-09174	P.C.B. Assembly, MIC SOCKET Socket, MIC	1 2
	4-2401-03174	Godiner, inite	
PHONES	PCB ASS'Y		
55	141-4-250T-63573	P.C.B. Assembly, PHONES Socket, PHONES	1
	4-235T-99281	Socket, PHONES	•
POWER	SWITCH PCB ASS	'Y	
56	141-4-250T-63673	P.C.B. Assembly, POWER	1
S14	4-238T-37500	SWITCH Switch, POWER	1 2
	141-2-382T-07300	Terminal	
LAMPP	CB ASS'Y		L
57	141-4-250T-63773	P.C.B. Assembly, LAMP	1
PL1	4-612T-13700	Lamp, 8V 150mA	1
LEVEL	INDICATOR PCB	ASS'Y	<u> </u>
58	141-4-250T-63871	P.C.B. Assembly, LEVEL	1
IC704		INDICATOR Integrated Circuit, LB1403	2
804 D1,2,3		LED, SLP251B, Green	6
4,5,6 D7,8,9,1	o	LED, SLP151B, Red	4
	RESISTORS		
ì	1	e 1/4W, ±5% unless otherwise noted	
R738,83	12	1.8K ohm 1.8K ohm	2 2 2
R743,84	"	,,,,,,,	
	CAPACITORS		
C732,8		Electrolytic 10µF 16V	2
1.32,5			
1 .	1	<b>!</b>	1

Key No.	Part No.	Description	Q'ty
RECORE	LED PCB ASS'Y		
59 D20	141-4-250T-64771	P.C.B. Assembly, RECORD LED LED, SLP151B, Red, RECORD	1
PAUSE I	ED PCB ASS'Y		
60 D21	141-4-250T-64871	P.C.B. Assembly, PAUSE LED LED, SLP151B, Red PAUSE	1 1

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
1ECHAN	IISM (TM-250US)			MECHAN	IISM (TM-250US)		
1	141-0-311T-37200	Chassis Assembly	1	84	141-2-853T-70900	Spring Plate	1
4 5	141-2-462T-67400	Boss, Lever		85 86	141-2-731T-87100	Slide, Brake Spring Coil	1
5	141-2-742T-62900	Lever, PAUSE	1	87	141-2-855T-75400	Slide	i
6 7	141-2-742T-62600	Lever	1	88	141-2-731T-86400		1
8	141-2-851T-56100	Spring Coil	1		141-2-856T-01100	Spring Coil	i
9	141-2-530T-00800	Guide, Cassette	2	89 90	141-2-731T-86500	Slide	1
	141-2-853T-72900	Spring Plate, Head Slide	1 1 1		141-2-614T-06000	Lever Lock, PAUSE	i
10	141-0-731T-89100	Slide Assembly, Head Slide	1 !	91	141-2-852T-68000	Spring Wire	1
12	141-2-855T-74900	Spring Coil	1 !	92	141-0-731T-87200	Slide Assembly, PAUSE	1
13 14	141-2-855T-74800	Spring Coil	1	93	141-2-731T-87000	Slide, F. FWD	i
	141-2-853T-71000	Spring Plate, Head Slide		94	141-2-731T-86900	Slide, PLAY	1
16	141-0-531T-13300	Reel Plate Assembly, Left	1 1	95	141-2-731T-86800	Slide, REW	1
17	141-0-531T-13301	Reel Plate Assembly, Right	1	96	141-2-731T-86701	Slide, RECORD	2
18	141-2-731T-89300	Slide, Brake	1 1	97	141-2-855T-75300	Spring Coil	3
19	141-2-712T-03401	Brake Shoe	2	98	141-0-352T-50602	Spacer Assembly, PAUSE/	3
20	141-2-852T-68100	Spring Wire, Brake Slide	1			RECORD/PLAY	_
21	4-242T-27500	Magnetic Head, Erase	1 1	99	141-0-352T-50604	Spacer Assembly, STOP	1
22	141-2-472T-05900	Lug, Lead mtg.	2	100	141-0-352T-50603	Spacer Assembly, F.FWD/REW	2
23	4-242T-25371	Magnetic Head, Record/Play	1 1	101		(Not used)	_
24	4-240T-51200	Socket, 10P CNS2	1 1	102	141-2-855T-71801	Spring Goil	6
25	141-2-851T-54500	Spring Coil, Head Azimuth	1	103		(Not used)	
26	141-2-855T-74700	Spring Coil, Pinch Roller	1 1	104	141-2-742T-59901	Lever	1
27	141-0-545T-07200	Lever Pinch Roller Assembly	1 1	105	141-2-742T-60000	Lever	1
28	141-2-742T-66500	Lever	1	106	141-2-742T-59900	Lever	4
29	4-235T-60300	Socket, R/P Head CNS1	1 1	107	141-2-855T-80100	Spring Coil	1
30	4-238T-31200	Switch, PLAY ON, S9	1 1	108	141-2-852T-70200	Spring Wire	1
31	141-2-352T-50300	Spacer	1 1	109	141-2-855T-80200	Spring Coil	1
32	141-2-737T-08200	Bracket Slide	111	110	141-2-581T-19000	Gear, Reel Pulley	1
33	141-2-365T-55000	Bracket Switch	lil	1111	141-2-855T-68100	Spring Coil, Reel	1
34	4-238T-35200	Switch, STOP MUTE, S8	lil	112	141-2-352T-49900	Spacer, Reel	Ιi
35	141-2-856T-02200	Spring Coil	i	113	141-0-661T-32001	Pulley Assembly, Reel	1
36	141-2-742T-60300	Lever	2	114	141-2-671T-06400	Cam	li
37	141-2-462T-67200	Boss	2	115	141-2-855T-76400	Spring Coil	1
38	141-24021-07200	(Not used)	-	116	141-2-352T-48300	Spacer	1
39	141-2-855T-76100		6	117	141-2-855T-74600	Spring Coil	Ιi
40	141-2-855T-80500	Spring Coil	6	118		Lever Assembly, Idler	i
41		Spring Coil	6		141-0-742T-60400		li
42	141-2-731T-92500	Slide		119	141-0-731T-87502	Slide Assembly	l i
43	141-2-731T-92300	Slide, RECORD	1 1	121	141-2-855T-75500	Spring Coil	Ιi
44	141-2-731T-90901	Slide REW/STOP/PAUSE	3	124	141-2-855T-75800	Spring Coil	Ιi
	141-2-731T-90900	Slide, PLAY/F. FWD	2	125	141-2-731T-87400	Slide	
45	141-2-731T-87700	Slide	1	126	141-2-732T-03500	Slide, AUTO STOP	
46	141-2-853T-71101	Spring Plate	1	127	141-0-742T-60100	Lever Assembly	1
47	141-2-855T-74500	Spring Coil	1	128	141-2-855T-75100	Spring Coil	1
48	141-2-853T-71100	Spring Plate, Cassette	1 1 1	129	141-0-742T-70800	Lever Assembly	1
49	141-0-731T-89200	Slide Assembly	1	130	141-2-855T-05000	Spring Coil	1
50	141-2-462T-67800	Boss	2	131	141-2-457T-10200	Special Washer 2.1x3x0.5mm	3
51	141-2-855T-05000	Spring Coil	1 1	132	141-2-457T-36300	Special Washer	1
52	141-2-345T-00400	Steel Ball, 2mm	6	133	141-2-457T-23700	Special Washer 1.2x3x0.3mm	2
53		(Not used)		134	141-2-457T-23000	Special Washer 2x5x0.4mm	10
54	1	(Not used)		135	141-2-457T-23100	Special Washer 3x7x0.6mm	1
55	1	(Not used)	1 1	137	141-2-457T-04100	Special Washer 1.7x4.5x0.5mm	3
56	4-238T-37800	Switch, TRIGGER S12	1	138	141-2-457T-04300	Special Washer	1 1
57	141-2-742T-70900	Lever, TRIGGER Switch	1 1	139	141-2-453T-30102	Washer 2.1x4x0.5mm	2
58	141-2-462T-69800	Boss, TRIGGER Switch	1	140	141-2-453T-30202	Washer 2.6x4.7x0.5mm	1
61	4-527T-15172	Motor	1 1	141	141-2-453T-30501	Washer 4.1x6.5x0.25mm	2
62	141-0-661T-76203	Pulley Motor Assembly	1 1	142	141-2-453T-30500	Special Washer 4x6.5x0.15mm	1
63	141-2-445T-11801	Rubber Cushion, Motor	3	143		(Not used)	1
64	141-2-421T-27500	Special Screw, Motor	3	144	141-2-453T-30301	Washer, 3.1x5.4x0.25mm	1
65	141-0-378T-11701	Bracket Motor Assembly	1 1	145	141-2-453T-30101	Special Washer 2.1x4x0.25mm	1
66	141-2-472T-03700	Lug	1 1	146	141-2-457T-33400	Special Washer	1
67		(Not used)				5.2x11.5x0.3mm	1
68	141-2-472T-01201	Lug, Lead mtg.	1 1	147	141-2-457T-06200	Special Washer 2.1x9x0.3mm	1
69	141-2-561T-05271	Flat Belt, Flywheel	1 1	148	141-2-457T-41600	Special Washer, 2x5x0.5mm	1 1
70	141-0-521T-12121	Flywheel Assembly	1 1	''	1 2	Special reading, Experience	
71	141-2-564T-23971	Square Belt, Idler	lil		ļ		Į.
72	141-0-573T-13600	Bearing Assembly	lil	151	4-238T-09600	Switch, Motor Power, S14	1 1
73	141-2-581T-19600	Gear	lil		4-2501-05000	Switch, Motor Fower, 514	1 '
74							
75	141-2-581T-19500	Gear				1	
76 76	141-2-581T-19100	Gear, Auto Stop	1 1	l <b>i</b>	1	1	1
70 77	141-0-551T-03620	Idler Assembly, PLAY	1 : 1	l ———	1	<u> </u>	<u>.                                    </u>
77 78	141-2-855T-75600	Spring Coilg		HARD	NARE		
78 79	141-2-411T-02600	Plate Nut	1 1	l <del> </del>	T		T
	141-2-855T-75000	Spring Coil		l I		1	1
80	141-2-365T-54200	Bracket Switch, PAUSE	1 1	.,,		D = 111 0 = 000	1.
81	4-231T-71200	Switch, PAUSE, S13	1	Y02		Pan Hd. Screw, 2.6x3mm	
		1		Y03	1	Pan Hd. Screw, 2.6x4mm	
	1		1	Y04	1	Pan Hd. Screw, 2.6x6mm,	:
	1				1	(Black)	i
	1		1	Y05		Pan Hd. Screw, 3x4mm	1 1
	1		ł	Y06	1	Pan Hd. Forming Screw,	4
		i e	1		1	2.6x4mm	
				Y07		Pan Hd. Forming Screw,	

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